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NEXT REVIEW DATE: _____

AUTH: HR 70-2

DATE: 24 Oct 70 REVIEWER: 010956**CONFIDENTIAL**

15 October 1954

MEMORANDUM FOR: THE RECORD**SUBJECT: Project Monitor on P-151, Binary Compound Research,**

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1. Time and Place of Meeting: The meeting was held 15 October 1954 in Barton Hall.

2. Attendance:

ABD
APD

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3. Purpose: To discuss progress on the project and to evaluate basic research potential in the field of solid state physics (work on properties of CdS)

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4. Discussion:

a. Work on Traffic Counter

A crude breadboard has been finished which has a range of about 70 feet in either darkness or average room lighting. The source, unmodulated, is a tungsten bulb in a crude reflector of unknown characteristics. The detector is a large PbS cell of French manufacture behind an objective lens. The diameter of reflector and lens are assumed to be about 2". The amplifier following the detector is a single 6AU6 tube.

_____ is considering the use of a modified wrist watch as a counter of low power requirements and large capacity.

Several false impressions were gained by _____ regarding this project. The first is that we require 100,000 counter units; the second is that APD possesses a "super battery" power source.

b. Basic Research Potential of _____

_____ went into some detail on the modus operandi of _____ regarding their CdS work. The _____ staff has been expanded with the purpose of obtaining more data on the

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performance of [] CdS cells. This data is bringing to light many questions which are then referred to [] for basic analysis and answers. Many interesting facts have come to light in this way.

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5. Conclusions:

a. Traffic Counter

The work done on the counter to date appears to be mediocre with the exception of the idea of using a modified wrist watch as

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given to examining U. S. cells. Furthermore, a hunt for a more sensitive cell seems a bit senseless without first optimizing the optical system with available cells.

The various misconceptions regarding batteries and quantity of units required must be clarified.

b. Basic Research Potential

It appears that the [] can do fairly basic theoretical work on solid state physics. It is obvious, however, that such work will be done, not at [] but at [] laboratories. Any decision on the direction that P-151 may take must be based on this fact.

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6. Actions:

a. APD must make the necessary decisions regarding the course of this project and notify [] by 22 October 1954.

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[]
TBS/APD

Distribution:

Orig. - P-151
1 - Chrono

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